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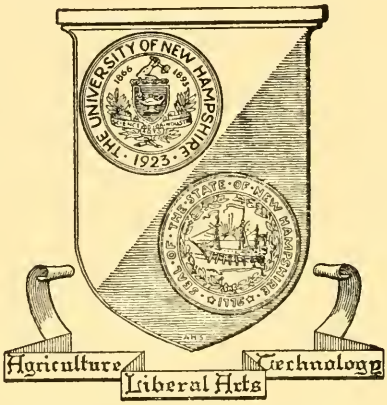

The University
of
New Hampshire

Bulletin 369 July, 1947

THE UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the

State Department of Agriculture

By T. O. SMITH and H. A. DAVIS

The University of New Hampshire

Durham, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feedingstuffs reported in this bulletin was made under the direction of Honorable R. W. Smith, Acting Commissioner of Agriculture. Mr. George H. Laramie, Feed Control Supervisor, and Mr. Vincent P. Peterson, Inspector, collected samples of 591 brands of feedingstuffs which were offered for sale in the state during the year ending June, 1947. The 591 samples represent brands of 134 manufacturers.

REGISTRATION AND LABELING OF FEEDINGSTUFFS

Registration—The New Hampshire law, entitled an Act to Regulate the Sale of Commercial Feedingstuffs, requires registration of each brand offered for sale. This is usually done by the manufacturer or jobber whether he is located within or outside the State. Feedingstuffs manufactured in other states frequently pass through several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee is paid or they must assume that responsibility. All matters relative to registration and all inquiries concerning the law should be addressed to the Feed Control Supervisor, State House, Concord.

Labeling—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feedingstuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein and of fat and the maximum percentage only of crude fiber. In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved 26 general regulations which "should be adopted by State officials as far as the statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feedingstuffs law reads as follows: " . . . and shall state in bold type upon the container or tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception that may result from the manufacturer's use of indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 212 official definitions of ingredients

used in the compounding of feedingstuffs. These definitions are subject to frequent addition and revision. At the present time there are also 20 tentative definitions and 12 that have been proposed for future discussion. Tentative definitions are those which have received favorable consideration but have not yet been made official. A 138-page booklet containing the above three classes of definitions, 26 general regulations, five tentative regulations, 26 resolutions adopted and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. The manufacturer should secure a copy of this booklet and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

PURPOSE OF THE FEEDINGSTUFFS LAW

The chief purpose of the feedingstuffs law is to protect the consumer against the inferior products which doubtless would soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feedingstuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feedingstuffs law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire feedingstuffs law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feedingstuffs law. He then has no recourse under the feedingstuffs law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feedingstuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's cooperation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford the purchaser himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuff at his own risk. The terms used in reporting the chemical analysis of a feedingstuff are briefly defined as follows:

Protein is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein

are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types.

Fat is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether-soluble material which is not fat. When urea is present the figure for the percentage of fat found may be high as much as two-tenths per cent, due to the slight solubility of urea in anhydrous ether. When sulphur is present, the percentage of fat found is much too high, since sulphur is readily soluble in anhydrous ether.

Fiber is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum as in protein and fat.

This bulletin is concerned with the enforcement of the feedingstuffs law. It is not within its scope to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Ext. Cir. 195	Adjusting Feed Costs to Reduced Milk Incomes, 4 pp.
Folder 10	The Use of Home-grown Grains in Feeding the Dairy Herd.
Press Bull. 100	Home-grown Dairy Feeds, 1 p.
Ext. Bull. 67	Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 158	Feeding Chickens, 18 pp.
Ext. Cir. 250	The Home Poultry Flock, 12 pp.
Sta. Bull. 335	Protein Requirements of Chickens at Various Stages of Growth and Development II, 15 pp.
Sta. Cir. 52	Growth and Feed Standards for New Hampshire, 8 pp.
Sta. Cir. 56	Fine Versus Coarse Grit as a Feed Ingredient for Poultry, 8 pp.
Ext. Cir. 282	Dairy Calves.

While the word feedingstuff does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

HOW COST OF INSPECTION AFFECTS PRICE

The cost of a feedingstuff inspection includes the drawing and the analysis of the samples, and the publication and mailing of the annual bulletin. The funds from which these costs are paid are

accumulated from the license fees which the manufacturer is required to pay annually on each brand of feedingstuff offered for sale within the state. Since manufacturing and distributing costs are finally paid by the consumer, the purchaser of feedingstuffs is interested in the effect of the cost of the inspection on the retail price per ton. The sixteenth census of the United States Department of Commerce under the heading, specified farm expenditures, 1939, reports the retail value of feeds for domestic animals and poultry sold in New Hampshire in that year as $7,619,245. A calculation based on this valuation and on the known costs of the inspection shows that the cost to purchasers is less than four cents per ton of feed, a fraction of a cent per 100-pound bag. The 1939 figure for the retail value of feedingstuffs sold annually in the state is used, since it is the most recent authoritative figure available. It is estimated the present figure is considerably more than double that amount. If the estimated valuation is used, the cost of the inspection is less than two cents per ton.

CONFORMITY TO THE GUARANTEES

The chemical analyses were made by the methods of the Association of Official Agricultural Chemists. No sample was drawn from less than 10 bags. Of the 591 brands analyzed, 15.3 per cent contained less than the guaranteed amount of protein; 5.7 per cent contained less than the guaranteed amount of fat, and 24.7 per cent contained crude fiber in excess of the guarantee. A comparison of these figures with those of previous years is shown in Table I.

Resolution 21, p. 16 of the Official Publication of the Association of American Feed Control Officials, reads in part "that urea is to be used only in such limited quantities as to insure the total amount present shall not exceed 3% of the (grain) ration." Seven brands contained urea as one of the ingredients. None exceeded the 3 per cent urea permitted under the resolution.

In the tabulation of the analytical figures (p. 10 to p. 26 inclusive) those figures one-half per cent or more below guarantee in protein, one-fourth per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in bold face type.

TABLE I PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1947 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

The feedingstuffs law requires the Agricultural Experiment Station to analyze only samples of registered feedingstuffs drawn under the direction of the Feed Control Supervisor. It does, each year, however, analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. Frequently the reason for requesting an analysis is that the feed is suspected of causing sickness or death of livestock or poultry. While in very rare instances the feed may have caused the trouble, disease is usually found to be the cause. Many times feeders, suspecting the feed, lose valuable time in the treatment of the disease by sending a sample of the feed for analysis and waiting for the report. Losses could have been reduced had a veterinarian or poultry specialist been consulted immediately and proper treatment given promptly. The most conclusive method of determining whether or not the feed is the cause of the trouble is a biological test. Such a test can be conducted on the premises of the feeder. If the feed is suspected, confine in sanitary pens two lots of healthy chicks. Give to one lot the suspected feed and to the other lot a feed known to be good. Should the chicks receiving the suspected feed become ill and the others remain healthy, there is evidence the feed is the cause. Under such circumstances, notify the Feed Control Supervisor and an official sample will be drawn. The official sample will be analyzed to determine if the manufacturer is responsible.

The most common reason the purchaser has for asking to have the sample analyzed is to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage. The Station can assume no responsibility for the drawing of an unofficial sample but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feedingstuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging 5 per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a shipment of a feed can only be had by drawing a core from several bags. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible

of the large lot from which it is taken. Because of the cost of laboratory work and materials, an analysis is not usually warranted on a sample drawn from less than a one-ton lot of feed.

A one-pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles and a change in the moisture content. In order that the department may have a record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Albers Milling Co. Seattle, Washington						
Albers Calf Manna	25.00	26.40	4.00	4.94	5.00	4.22
Allied Mills, Inc. Chicago, Illinois						
Economy 20% Dairy Ration	20.00	21.67	3.00	3.95	12.00	7.91
Economy Laying Mash	18.00	18.87	3.00	4.43	8.00	5.40
Wayne All Mash Egg	15.00	15.59	2.50	3.89	8.00	**9.23**
Wayne All Mash Grower	14.00	15.72	2.50	4.12	8.00	7.51
Wayne Breeder Mash	20.00	21.01	3.00	4.93	8.00	7.68
Wayne Calf Meal	24.00	23.64	3.00	4.99	7.00	6.32
Wayne Chick and Broiler Ration	19.00	20.14	3.00	4.76	8.00	7.96
Wayne Chick Starter	18.00	18.78	3.00	4.65	7.00	**8.06**
Wayne Complete Calf Feed	16.00	16.03	3.00	3.92	9.00	9.36
Wayne 16% Dairy Feed	16.00	17.08	3.00	3.45	13.00	**14.08**
Wayne 16% Dairy Ration	16.00	16.29	3.00	4.26	10.00	9.77
Wayne 20% Dairy Ration	20.00	19.66	3.00	4.56	10.00	8.86
Wayne Dog Food Blox	22.00	23.82	4.00	5.37	5.00	4.20
Wayne Egg Mash	18.00	18.17	3.00	3.56	8.00	8.43
Wayne Fitting Ration	12.00	15.63	3.00	4.51	9.00	8.37
Wayne Flushing Mash	20.00	20.10	3.00	4.28	7.00	3.93
Wayne Fox Food Blox	26.00	29.15	4.00	5.56	5.50	5.05
Wayne Fox Food Krums	22.00	26.40	4.00	4.22	6.00	5.97
Wayne Growing Mash	18.00	20.14	3.00	4.61	8.00	6.73
Wayne Horse Feed	9.00	11.64	2.50	3.63	12.00	8.28
Wayne Mink Meal	22.00	22.51	4.00	4.53	7.00	5.99
Wayne Pork Maker	14.00	17.65	3.00	3.90	8.00	8.30
Wayne Rabbit Pellets	13.00	13.23	3.00	3.68	16.00	11.14
Wayne Ranch Meal	17.00	17.91	3.50	4.18	7.50	6.36
Wayne Ranch Meal	17.00	19.55	3.50	4.18	7.50	6.11
Wayne Turkey Breeder Mash	22.00	22.50	3.00	4.40	10.00	9.38
Wayne Turkey Growing Mash	20.00	22.24	3.00	4.57	8.00	8.31
Wayne Turkey Starting Mash	25.00	25.48	3.00	4.81	8.00	6.82
Amber Milling Division of F. U. G. T. A. Rush City, Minnesota						
Full Cream Wheat Mixed Feed with Mill Run of Screenings	14.00	14.84	4.00	6.02	9.50	9.48
American Maize Products Company Roby, Indiana						
Cream of Corn Gluten Feed	23.00	23.07	2.00	3.10	9.50	8.72
Anchor Mills Hagerstown, Maryland						
Zip Egg Mash	18.00	17.80	3.00	3.66	6.00	**7.58**
Archer-Daniels Midland Co. Minneapolis, Minnesota						
Archer Quality 41% Soybean Oil Meal	41.00	43.47	3.50	3.99	7.00	5.65
Ashcraft-Wilkinson Co. Atlanta, Georgia						
Cow-Eta Brand 41% Protein Cottonseed Meal	41.00	**36.98**	5.00	5.34	13.00	**16.38**
Badger Feeds, Inc. Madison, Wisconsin						
Badger Special 16% Dairy Feed	16.00	17.95	3.50	3.84	12.50	12.97

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. W. Bailey & Co. Montpelier, Vermont						
Bailey's All Purpose Mash	18.00	18.52	3.00	4.45	7.00	7.35
Bailey's Breeder Mash	18.00	19.91	3.00	4.03	7.00	7.53
Bailey's Calf Ration	15.00	17.69	4.00	3.73	8.50	8.29
Bailey's Chick Starter-Broiler	20.00	20.97	3.00	4.58	6.50	7.19
Bailey's Complete Breeder	16.00	17.16	3.00	4.54	7.00	7.60
Bailey's Complete Egg Ration	16.00	16.72	3.00	4.31	7.00	8.05
Bailey's Complete Grower	15.00	16.59	3.00	4.80	7.00	8.71
Bailey's 16% Dairy Ration	16.00	17.34	3.00	4.83	8.00	9.16
Bailey's 18% Dairy Ration	18.00	20.01	3.00	5.05	9.00	7.95
Bailey's 20% Dairy Ration	20.00	21.23	3.50	4.92	8.00	8.30
Bailey's Emergency All Purpose Mash	18.00	18.21	3.00	4.48	8.00	7.86
Bailey's Fitting Ration	14.00	13.31	3.00	4.32	7.50	10.27
Bailey's Freshening Ration	10.00	12.65	1.50	4.33	15.00	12.33
Bailey's Goat Pellets	16.00	16.46	3.00	3.45	9.00	6.58
Bailey's Growing Mash Pellets	18.00	20.23	3.00	4.34	7.00	7.74
Bailey's Horse Feed	10.50	11.38	3.00	4.23	9.00	8.12
Bailey's Laying Mash	18.00	18.39	3.00	4.20	7.50	8.31
Bailey's Laying Mash	20.00	21.01	3.00	4.57	7.50	6.87
Bailey's Pig Feed	17.00	17.03	3.00	4.02	7.00	7.34
Bailey's Rabbit Pellets	16.00	18.08	3.00	3.87	9.00	11.54
Bailey's Super Pellets	24.00	26.66	3.00	4.49	7.00	5.60
Bailey's Turkey Fattener Pellets	18.00	17.53	3.00	3.65	6.00	5.98
Bailey's Turkey Grower	20.00	19.68	3.00	4.69	7.00	8.56
Bailey's Turkey Grower	20.00	21.10	3.00	4.38	7.00	9.39
Bailey's Turkey Starter	25.00	26.40	3.00	4.99	6.50	7.21
Bailey's Yankee 16	16.00	16.68	3.50	3.94	13.00	11.79
Blatchford Calf Ration	19.50	19.79	3.00	4.51	9.50	7.61
Battle Creek Dog Food Co. Battle Creek, Michigan						
Miller's Kibbles	18.00	19.26	2.00	2.37	1.50	1.13
Miller's Ration	15.00	15.98	1.50	4.25	3.50	4.38
Bay State Milling Co. Winona, Minnesota						
Wingold Standard Hard Wheat Middlings	16.00	18.04	4.00	5.90	9.50	7.89
Beacon Milling Co., Inc. Cayuga, New York						
Auburn 16	16.00	18.87	3.25	4.18	10.00	8.21
Auburn 18	18.00	20.44	3.25	4.42	10.00	7.71
Beacon 20	20.00	20.22	3.50	4.40	9.00	7.59
Beacon Breeders' Mash	22.00	22.55	3.50	5.25	7.50	7.19
Beacon Broiler Feed	20.00	20.79	3.00	4.55	7.00	5.55
Beacon C-C Pellets	15.00	15.94	1.00	9.83	5.00	4.71
Beacon Calf Grain	14.00	15.28	4.00	4.54	10.00	8.77
Beacon Calf Starter	19.00	18.02	3.50	4.57	7.00	6.41
Beacon Complete Starting Ration	20.00	20.49	3.50	4.75	6.50	6.08
Beacon 22 Egg Mash	22.00	22.24	3.50	4.84	7.50	7.47
Beacon Fitting Ration	14.00	16.07	3.50	3.91	8.00	7.89
Beacon Fleshing Pellets	20.00	20.18	3.50	4.70	7.50	5.99
Beacon 24 for Mixing with Home Grains	24.00	27.10	3.50	4.10	9.00	7.31
Beacon Goat Ration	16.00	17.38	3.50	4.16	10.00	7.68
Beacon Growing Mash	18.00	18.65	3.50	4.49	7.50	5.96
Beacon Test Cow Ration	16.00	17.16	4.00	4.12	9.00	8.42

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Beacon Milling Co., (Concluded)						
Beacon Test Cow Ration	18.00	18.65	4.00	4.09	9.00	7.79
Beacon Turkey and Game Bird Breeder Mash	22.00	22.85	3.50	5.66	7.50	7.47
Beacon Turkey and Game Bird Fitting Ration	10.00	11.94	3.00	3.33	9.00	6.86
Beacon Turkey Growing Mash	20.00	21.62	3.00	4.67	7.50	7.34
Berry Alfalfa Milling Company San Joaquin, California						
Straight Fine Ground Alfalfa	15.00	15.15	1.50	1.65	28.00	29.25
L. Clayton Berry Lebanon, New Hampshire						
Colonial Dairy Ration	16.00	16.11	4.00	4.17	12.00	10.71
Blair Milling Co. Atchison, Kansas						
Wheat Standard Middlings	15.00	16.02	3.50	4.72	9.50	7.68
Blythe Milling Company Blythe, California						
Alfalfa Meal	17.00	15.32	1.50	1.96	26.00	26.52
Alfalfa Molasses Meal	12.00	11.91	2.00	1.80	23.00	19.87
Borden Company New York, New York						
Flaydry Poultry Feed Supplement	20.00	24.69	0.50	1.35	4.50	4.01
Brown Linseed Corporation New York, New York						
34% Old Process Linseed Meal	34.00	34.59	4.50	5.91	10.00	8.51
Central Mills Dunbridge, Ohio						
Dehydrated Alfalfa Meal	13.00	14.41	1.50	2.13	33.00	30.00
Clinton Industries, Inc. Clinton, Iowa						
Clinton Corn Gluten Feed	23.00	26.22	2.00	2.31	8.50	6.64
Clinton Corn Gluten Meal	41.00	41.81	1.00	1.60	6.00	4.45
Colebrook Feed Co. Colebrook, New Hampshire						
Colebrook 18% Dairy Ration	18.00	19.22	4.00	4.59	9.00	7.71
Commander Larabee Milling Company Minneapolis, Minnesota						
Sunfed Wheat Bran	14.00	15.24	4.00	4.92	12.00	9.84
Commercial Solvents Corporation Peoria, Illinois						
B-43 Riboflavin Supplement	9.00	9.98	2.00	2.25	6.00	2.51
Consolidated Chemical Industries, Inc. Woburn, Massachusetts						
Digesta Bone	5.00	6.52	0.00	0.75	2.00	2.61
Consolidated Products Co. Danville, Illinois						
Kaff-A	25.00	27.58	4.00	4.49	2.00	1.73
Consolidated Rendering Company Boston, Massachusetts						
Corenco Feeding Bone Meal	10.00	12.34	0.00	7.07	....	....
Corenco Fish Meal	60.00	57.84	5.00	11.46	....	....
Corenco 50% Meat and Bone Scrap	50.00	54.07	6.00	11.56	....	....

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Corn Products Refining Co. New York, New York						
Buffalo Corn Gluten Feed	23.00	24.47	2.00	2.58	8.50	7.89
Charles M. Cox Co. Boston, Massachusetts						
Wirthmore Breeder Mash Pellets	20.00	20.36	3.00	3.90	7.00	6.63
Wirthmore Calf Starter Pellets	22.00	22.02	3.50	3.94	6.00	5.96
Wirthmore Calving Ration	14.00	14.49	4.00	3.81	10.00	9.63
Wirthmore Complete Breeder Ration	15.00	16.24	3.00	4.29	6.00	5.14
Wirthmore Complete Egg Ration	15.00	14.50	3.00	3.93	6.00	6.27
Wirthmore Complete Growing Ration	15.00	14.32	3.00	3.99	7.00	5.13
Wirthmore 20 Dairy Ration	20.00	21.98	3.50	3.51	8.00	7.26
Wirthmore 14% Fitting Ration	14.00	14.71	4.00	3.72	8.00	6.79
Wirthmore Growing Mash	17.50	19.83	3.00	4.24	7.00	6.01
Wirthmore Laying Mash	20.00	19.64	3.00	3.82	7.00	6.94
Wirthmore Poultry Flush	15.00	17.86	3.00	3.25	6.00	5.17
Wirthmore Rabbit Pellets	14.00	16.29	3.00	4.44	12.00	11.52
Wirthmore 16 Record Ration	16.00	17.29	3.50	4.59	9.00	7.72
Wirthmore Stanard 16 Dairy Ration	16.00	19.65	3.00	3.01	10.00	9.18
Wirthmore Standard Horse Feed	10.00	11.68	3.25	3.97	9.00	8.28
Wirthmore Starter and Broiler Ration	20.00	20.31	3.00	3.44	6.50	7.73
Wirthmore Stock Feed	10.00	12.78	3.00	4.76	11.00	9.30
Wirthmore Super Pellets	20.00	19.44	3.00	3.91	10.00	6.39
Wirthmore Turkey Fattening Pellets	16.00	17.16	3.00	3.98	7.00	6.03
Wirthmore Turkey Growing Ration	20.00	20.71	3.00	4.01	7.00	6.99
Crawford Brothers, Inc. Walton, New York						
Crawford Complete Egg Mash	15.00	16.46	3.00	4.36	8.00	7.22
Crawford Complete Growing Mash	15.00	15.59	3.00	4.52	8.00	7.98
Crawford Producer 20%	20.00	22.90	3.50	3.93	10.00	7.39
Crawford Special Test 18%	18.00	17.29	4.00	3.68	10.00	7.91
Crawford Starting Mash	22.00	24.03	3.50	4.74	7.00	6.74
D-K Products Co. Chicago, Illinois						
Brewers Dried Grains	24.00	20.82	5.00	4.48	18.00	16.37
Davis Feed Company Rutland, Vermont						
Davis 16% Kow Feed	16.00	18.65	4.00	4.41	8.00	10.36
Dawe's Manufacturing Company Chicago, Illinois						
Dawe's Vitamelk Base Animal Type	34.00	35.99	2.00	4.08	4.50	5.40
Dawe's Vitamelk Base Poultry Type	34.00	35.37	3.00	4.91	5.00	6.24
Delaware Mills, Inc. Deposit, New York						
Delaware Chick Starter	18.00	19.04	3.50	4.40	7.00	6.86
Delaware Complete Breeder Mash	15.00	17.16	3.00	4.83	8.00	10.40
Delaware Complete Growing Mash	15.00	16.24	3.00	4.99	7.00	6.13
Delaware Complete Laying Mash	15.00	18.60	3.00	5.19	8.00	12.00
Delaware Egg Mash	18.00	20.01	3.00	4.14	9.00	7.53
Delaware Fitting Ration	14.00	17.82	4.00	4.01	10.00	9.49
Delaware Horse Feed	9.00	11.99	3.00	3.99	10.00	9.12
Delaware Laying Mash	20.00	20.05	3.00	4.16	8.00	6.13
Delaware Pig and Hog Feed	16.00	15.32	4.00	4.56	8.00	5.97
Delaware Starter and Broiler Ration	18.00	20.31	3.50	4.15	7.00	7.48
Delaware Sweet 16% Dairy Feed	16.00	19.35	3.50	4.07	12.00	10.63
Delaware Sweet 20% Dairy Feed	20.00	20.49	3.50	3.64	12.00	9.89
Delaware Test Ration	18.00	18.91	4.50	4.44	8.00	6.94

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Dietrich & Gambrill, Inc. Frederick, Maryland						
All Purpose Mash	15.00	16.15	3.50	5.13	8.00	6.23
D & G Breeder Mash	22.00	23.29	3.50	4.35	8.00	5.96
D & G Dog Food Kibbled Biscuit	20.00	22.37	2.00	2.78	3.00	2.14
D & G Growing and Fitting Ration	13.00	16.20	3.50	3.65	10.00	6.56
Frederick 20% Dairy	20.00	20.93	3.50	5.95	12.00	8.66
Frederick Laying Mash	18.00	19.00	3.50	4.51	9.00	5.73
Pen Mar 16% Dairy	16.00	17.43	3.50	4.88	10.00	7.25
Pen Mar 20% Dairy	20.00	19.70	3.50	4.69	10.00	7.51
Pen Mar Stock Feed	10.00	10.33	3.00	4.31	12.00	6.76
Dodge Grain Co. Methuen, Massachusetts						
Dodge Starting Growing Mash	16.00	16.77	4.00	4.43	10.00	7.90
Doughboy Industries, Inc. New Richmond, Wisconsin						
Chick Growing Mash	17.00	18.34	4.00	3.79	7.00	8.91
20% Egg Mash	20.00	20.79	4.50	3.95	6.00	8.67
Mormilk 18% Dairy Ration	18.00	21.06	3.25	3.26	14.00	13.57
John C. Dow Co. Gloucester, Massachusetts						
Dow Dog Food	21.00	24.12	3.00	2.87	2.00	1.34
Eastern States Farmers' Exchange, Inc. West Springfield, Massachusetts						
Eastern States All Mash Developer	14.50	15.80	2.50	4.23	8.00	6.55
Eastern States All Mash Egg	15.50	16.46	3.00	4.08	7.00	5.59
Eastern States Breeder Concentrate Pellets	20.00	21.41	3.50	4.70	8.00	6.21
Eastern States Calf Starter	23.00	25.26	3.00	4.29	7.00	5.64
Eastern States Calving Ration	10.00	10.85	1.50	1.84	18.00	13.73
Eastern States Developer	18.00	19.04	2.50	3.85	10.00	7.48
Eastern States Dog Feed	24.00	24.78	4.00	5.72	5.00	3.87
Eastern States Egg Mash	20.00	19.40	2.50	3.89	7.50	5.94
Eastern States Fitting Ration	14.00	15.98	3.50	4.03	11.00	8.62
Eastern States Flushing	18.50	19.96	1.50	2.72	5.00	4.99
Eastern States Fullpail	20.00	22.24	4.00	4.31	8.50	6.82
Eastern States Horse Feed	10.50	11.25	3.00	3.80	8.00	6.62
Eastern States Milkmore 16	16.00	16.94	4.00	4.53	9.00	5.86
Eastern States Pig Starter and Breeder	18.00	18.56	2.00	4.19	9.00	7.30
Eastern States Pork Builder	14.00	17.16	2.00	4.43	9.50	7.93
Eastern States Sheep and Goat	16.00	17.56	3.00	3.77	8.00	6.66
Eastern States Sixteen	16.00	16.77	3.50	4.52	9.50	7.58
Eastern States Starting and Broiler	20.00	20.40	3.00	4.29	7.00	5.38
Eastern States Stock Feed	12.00	13.23	3.00	3.73	6.50	4.79
Eastern States 32% Supplement	32.00	33.10	4.00	5.07	8.00	6.52
Eastern States Turkey Breeder Pellets	20.00	21.23	3.00	4.62	8.00	6.41
Eastern States Turkey Grower Pellets	20.00	21.89	2.50	3.86	7.00	5.95
Eastern States Turkey Start	25.00	27.18	2.50	4.33	7.50	6.29

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Elm City Grain Co. Keene, New Hampshire						
Elm Tree All Mash Breeder	16.00	18.48	3.50	4.63	8.00	6.47
Elm Tree All Mash Grower	15.00	16.33	3.50	4.53	8.00	5.92
Elm Tree All Mash Laying	16.00	18.25	3.50	4.55	8.00	5.56
Elm Tree Breeder Mash	20.00	21.01	4.00	5.27	8.00	6.58
Elm Tree Broiler Mash	22.00	23.12	3.50	4.90	7.50	5.22
Elm Tree Chick Starter	20.00	21.23	4.00	4.69	8.00	6.02
Elm Tree Dairy Feed	18.00	18.17	3.50	4.42	11.00	9.69
Elm Tree 14% Fitting Ration	14.00	14.27	3.50	3.87	11.00	8.19
Elm Tree Growing Mash	18.00	18.95	3.50	5.05	8.00	6.24
Elm Tree Laying Mash	19.00	20.88	3.50	4.80	9.00	7.19
Elmore Milling Co. Oneonta, New York						
Elmore Breeder Mash	20.00	18.63	4.00	4.64	8.00	10.06
Elmore Complete Growing Ration	15.00	16.29	3.50	4.78	8.00	8.41
Elmore Complete Layer and Breeder	15.00	16.42	3.50	4.94	8.00	11.14
Elmore Complete Market Egg Mash	15.00	18.43	3.50	4.85	8.00	7.96
Elmore Corn and Oats	10.00	10.68	3.50	5.04	7.00	7.30
Elmore Egg Mash	20.00	17.95	3.50	4.88	8.00	10.29
Elmore Fitting Ration	14.00	17.82	4.00	4.81	10.00	8.97
Elmore Fleshing Pellets	15.00	17.64	3.50	4.43	8.00	7.09
Elmore Goat Ration	16.00	19.00	4.00	4.01	10.00	8.54
Elmore M. A. C. Laying Mash	16.00	19.17	3.50	4.42	8.00	10.06
Elmore M. A. C. Laying Mash	18.00	19.61	3.50	4.37	8.00	9.49
Elmore Milk Grains Sixteen	16.00	17.07	4.00	4.13	10.00	10.22
Elmore Stock Feed	9.00	9.19	3.00	3.69	13.00	14.35
Elmore Turkey Finisher (Fattener)	17.00	18.21	4.00	3.46	8.00	7.52
Elmore Turkey Starting Mash	24.00	26.05	4.00	4.04	7.00	8.42
Emporia Elevator and Feeding Company Emporia, Kansas						
Alfalfa Meal	13.00	15.41	1.50	1.22	33.00	30.73
John W. Eshelman & Sons Lancaster, Pennsylvania						
Eshelman S-O-S	11.00	14.36	2.00	2.98	15.00	19.27
Pennsy 16 Dairy Feed	16.00	17.07	3.00	4.34	11.00	10.30
Red Rose Breeder Mash	20.00	20.18	4.00	4.83	8.50	6.10
Red Rose Broiler Ration	18.50	17.90	3.75	4.66	7.50	7.96
Red Rose Complete Calf Grower	14.00	15.72	3.25	4.01	8.00	7.97
Red Rose Complete Laying Mash	15.00	17.86	4.00	4.44	6.00	6.15
Red Rose 16% Dairy Feed	16.00	16.11	4.00	4.64	11.00	9.36
Red Rose Fitting Ration	12.00	14.10	4.00	4.46	7.00	8.26
Red Rose Growing Mash	18.00	19.52	3.50	4.77	7.50	6.61
Red Rose 85 Horse Feed	9.00	11.64	3.00	4.10	10.00	9.71
Red Rose Laying Mash	20.00	18.91	3.50	4.74	7.50	6.74
Red Rose Pig and Hog Meal	16.00	16.42	3.50	4.33	10.00	8.93
Red Rose Rabbit Feed Pelleted	14.00	14.71	3.50	3.92	9.50	10.83
Red Rose Starter and Grower	16.00	18.74	3.50	4.71	7.00	6.32
Farm Industries, Inc. DeGraff, Ohio						
Alfalfa Meal 13%	13.00	10.57	1.50	1.08	33.00	41.01
Alfalfa Meal 15%	15.00	14.34	1.50	2.23	32.00	26.43
Alfalfa Meal 17%	17.00	18.39	1.50	2.09	30.00	24.01
Farmers Feed Co. New York, New York						
Bull Brand Dried Brewers Grains	26.00	25.87	6.00	6.78	17.00	15.51

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Federal Mill, Lockport, New York						
Dairy Maid Soft Winter Wheat Bran	13.00	14.23	3.50	3.92	13.00	9.07
Dairy Maid Wheat Flour Middlings	13.00	15.45	3.50	4.14	6.00	4.02
Federal Emergency Wheat Mixed Feed	12.50	13.57	3.50	4.26	10.50	9.66
Lucky Hard Wheat Bran	15.00	16.77	3.50	5.47	12.00	9.75
Lucky Hard Wheat Standard Middlings	16.00	15.54	4.00	3.69	9.50	6.04
Lucky Wheat Red Dog	14.00	15.68	2.50	3.29	4.00	2.14
Fernando Alfalfa Milling Co., Van Nuys, California						
Alfalfa Leaf Meal	20.00	20.14	2.50	2.90	18.00	19.62
Alfalfa Meal	15.00	15.06	2.00	1.67	28.00	29.94
Flambeau Milling Company, Phillips, Wisconsin						
18% Broiler Ration	18.00	19.39	4.00	4.07	7.00	5.88
Florida Citrus Canners Cooperative, Lake Wales, Florida						
Wales Citro Pulp	6.00	6.57	2.50	3.49	20.00	15.38
Forbes Brothers, Topeka, Kansas						
Hominy Feed	10.50	10.72	6.50	6.26	6.00	5.65
J. A. Forrest Company, Minneapolis, Minnesota						
Alpine Ground Flax Screenings	17.00	14.10	9.00	6.19	14.00	15.28
Fowler Brothers, Suncook, New Hampshire						
Fowler's Complete Mash	15.00	15.76	3.00	4.54	10.00	8.05
Sun Valley 16% Dairy Feed	16.00	16.68	3.00	4.22	12.00	10.13
Frank Brothers Distributing Company, Prescott, Wisconsin						
Frank's Quality 16% Dairy Ration with Molasses	16.00	17.16	3.00	5.91	12.00	11.43
General Foods Corporation, Kankakee, Illinois						
Burt's Hominy Feed	10.00	9.87	5.50	7.33	6.00	4.82
General Mills, Detroit, Michigan						
Chief Oat Mill Feed	11.00	11.95	3.50	4.21	19.00	18.99
Dried Beet Pulp	7.00	7.97	0.30	0.62	22.50	19.29
Farm Service All Mash	16.00	19.17	3.50	5.71	7.50	7.38
Farm Service Breeder Mash	19.00	21.23	3.00	4.27	9.50	6.22
Farm Service Chick Starter	18.00	18.17	3.50	5.11	8.00	7.99
Farm Service Goat Ration	15.00	16.20	3.50	5.21	10.00	10.36
FarmService Horse Feed	9.00	10.07	3.00	3.96	9.50	7.37
Farm Service Intermediate Chick Feed	10.00	10.37	3.00	3.02	3.50	2.02
Farm Service Laying Mash	20.00	20.09	3.50	4.90	8.50	7.79
Farm Service Starter and Broiler	18.00	19.96	3.50	6.05	8.50	8.33
Farm Service Stock Feed	8.50	9.63	3.50	4.34	12.50	9.40
Larro 18% Broiler Feed	18.00	18.21	3.00	3.82	7.00	7.10
Larro Calf Builder	24.00	25.57	3.50	5.31	6.50	4.89
Larro Chick Builder	19.00	18.83	3.00	3.57	7.00	6.72
Larro 32% Dairy Concentrate	32.00	32.40	3.00	4.69	11.00	8.05

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
General Mills (Concluded)						
Larro 16% Dairy Feed	16.00	15.67	3.00	3.26	12.00	9.85
Larro 18% Dairy Feed	18.00	20.62	3.00	3.16	12.00	9.79
Larro 20% Dairy Feed	20.00	21.93	3.00	3.41	12.00	7.71
Larro Dog Food	24.50	26.62	4.50	6.65	5.50	5.24
Larro 18% Egg Mash	18.00	19.88	3.00	5.04	8.00	6.91
Larro Egg Mash	20.00	19.39	3.50	4.67	8.00	7.20
Larro Mash Concentrate	32.00	34.67	3.50	5.03	7.50	6.18
Larro Poultry Breeder Mash	20.00	20.70	3.00	4.19	8.00	7.71
Larro Sow and Pig Builder	17.50	19.22	3.50	3.79	8.00	7.73
Larro Turkey Breeder Mash	20.00	20.92	3.00	4.26	8.00	7.69
Oat Mill Feed	3.50	3.54	1.00	1.32	32.50	26.16
Pulverized Oats	12.00	12.17	4.50	5.55	13.00	11.75
Vigor Dairy Feed 20%	20.00	17.47	3.50	3.91	12.00	8.64
Vigor Laying Mash	18.00	19.01	3.00	5.67	11.00	7.28
Washburn's Gold Medal Fancy Wheat Mixed Feed	15.00	15.99	3.50	3.96	7.50	6.27
Washburn's Gold Medal Hard Wheat Bran and Wheat Screenings	14.00	14.23	3.50	4.51	12.00	10.39
Washburn's Gold Medal Hard Wheat Standard Middlings and Wheat Screenings	15.00	15.41	4.00	4.28	9.50	7.92
Glidden Company Indianapolis, Indiana						
Glidden All Mash Breeder	15.00	17.16	3.00	4.33	6.00	5.40
Glidden All Mash Layer	15.00	17.25	3.00	4.10	6.00	5.32
Glidden Breeder Mash	20.00	22.37	3.00	4.02	7.50	5.61
Glidden Broiler Ration	20.00	22.23	3.00	3.84	7.00	5.54
Glidden Chick Starter	19.00	20.71	3.00	4.16	7.00	6.17
Glidden 16% Dairy Feed	16.00	16.99	3.00	4.58	9.00	6.83
Glidden 20% Dairy Feed	20.00	20.09	3.00	3.89	9.00	7.22
Glidden Laying Mash	20.00	22.33	3.00	3.65	7.50	6.12
Glidden 18% Pig Meal	18.00	19.74	3.00	4.31	7.00	5.41
Soy Bean Oil Meal	44.00	44.01	0.50	1.20	7.00	6.97
D. H. Grandin Milling Co. Jamestown, New York						
Grandin's All Mash Layer	15.00	15.76	3.00	4.09	8.00	7.77
Grandin's Breeder Mash	20.00	20.31	3.00	4.31	8.00	7.76
Grandin's 14 Fitting Ration	14.00	15.41	3.50	4.66	10.00	7.79
Grandin's Fleshing Pellets	15.00	14.87	3.50	3.77	8.00	7.54
Grandin's Horse Feed	9.50	10.16	3.50	4.08	11.00	7.52
Grandin's Laying Mash	20.00	21.06	3.00	4.06	8.00	6.82
Grandin's 16 Milk Maker	16.00	16.64	3.50	4.86	10.00	8.61
Grandin's 18 Milk Maker	18.00	18.04	3.50	5.31	10.00	9.12
Grandin's 20 Milk Maker	20.00	21.10	3.50	5.13	10.00	8.52
Grandin's Pig and Hog Ration	18.00	20.01	3.50	4.21	10.00	5.03
Grandin's Rabbit Pellets	17.00	17.73	3.00	4.01	10.00	9.34
Grandin's Start-To-Finish Mash	18.00	19.48	3.00	4.84	8.00	8.44
Grandin's Starter and Broiler Mash	18.00	19.74	3.00	4.02	8.00	8.89
Gwinn Milling Company Columbus, Ohio						
Gwinn's 16% Dairy Feed	16.00	17.87	3.50	4.26	15.00	13.47
Hales & Hunter Co. Chicago, Illinois						
Gold Flake 16½ Dairy	16.50	17.42	3.00	3.69	15.00	12.21
Havana Fleshing Pellets	17.50	19.31	3.00	4.01	6.00	5.02
Pioneer Calf Starter	18.00	18.78	2.50	4.16	10.00	7.12

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Hales & Hunter Co. (Concluded)						
Pioneer 14 Dairy	14.00	16.55	3.00	4.93	9.00	7.86
Pioneer 18 Dairy	18.00	19.36	3.00	5.01	9.00	7.72
Pioneer Dairy Bull	12.00	15.68	3.00	4.34	12.00	7.99
Pioneer Dry and Freshening	12.00	14.62	2.50	4.47	10.00	8.69
Pioneer Hog Fattener	15.00	18.82	3.25	3.72	7.00	6.96
Red Comb All Mash Grower	15.00	18.65	3.00	3.88	6.00	5.63
Red Comb All Mash Layer	16.00	17.90	3.00	3.95	6.00	5.98
Red Comb Breeder Mash	18.00	20.53	3.00	3.90	7.00	5.99
Red Comb Broiler Mash	18.00	20.49	3.00	4.30	7.00	5.73
Red Comb C Flakes	15.00	17.03	4.00	4.02	7.00	4.21
Red Comb Chick Starter	20.00	20.62	3.00	4.45	6.00	5.58
Red Comb Egg Mash	20.00	21.84	3.00	4.35	7.00	5.42
Red Comb Flushing Mash	12.00	14.05	3.00	3.22	5.00	3.52
Red Comb Growing Mash	16.00	17.91	3.00	3.76	7.00	6.03
Red Comb Sup-Pel	19.00	24.47	3.00	4.79	11.00	10.93
Red Comb Turkey Starter	27.00	27.45	3.00	4.22	6.00	5.29
Holden Milling and Elevator Co. Holden, Missouri						
Pure Wheat Bran	14.50	15.19	3.50	4.19	11.00	8.78
Holland Pioneer Mills Ohio City, Ohio						
Lucky Strike Soybean Oil Meal	41.00	42.95	4.50	5.30	7.00	5.19
E. C. & W. L. Hopkins, Inc. Greenfield, New Hampshire						
Granite State Breeder Mash	20.00	22.33	3.00	5.07	6.00	6.80
Granite State Calf Meal	19.00	18.48	3.50	4.88	5.00	3.40
Granite State Chick Starter	20.00	21.93	3.00	5.01	6.50	6.31
Granite State Complete Breeder Mash	15.00	17.34	3.00	4.79	7.00	5.86
Granite State Complete Growing Mash	15.00	15.85	3.00	5.78	7.00	7.83
Granite State Complete Mash	15.00	16.81	3.00	4.72	7.00	7.40
Granite State 20% Dairy Feed	20.00	21.45	4.00	4.07	10.00	7.09
Granite State Egg Mash	18.00	20.84	4.00	4.82	5.50	7.12
Granite State Fitting Ration	12.00	15.28	3.00	4.77	8.00	7.58
Granite State Growing Mash	19.00	19.52	3.00	5.12	6.00	6.64
Granite State Hog Ration	17.50	16.12	3.00	4.01	7.00	5.60
Granite State Horse Feed	10.00	11.82	4.00	4.22	8.00	6.68
Granite State Pre-Starter	25.00	28.50	4.00	4.70	6.00	6.56
Granite State Stock Feed	9.00	8.45	4.00	4.87	10.00	7.46
Page 16% Dairy	16.00	17.60	4.00	4.45	9.00	7.35
Page 20% Dairy	20.00	22.50	4.00	4.31	9.00	6.83
Illinois Cereal Mills, Inc. Paris, Illinois						
Hominy Feed	10.00	10.16	6.00	6.85	5.00	5.79
International Milling Co. Minneapolis, Minnesota						
Blackhawk Wheat Bran with Ground Wheat Screenings	15.00	15.03	2.50	4.33	12.00	9.04
Iowa Feed Company Des Moines, Iowa						
"IFCO" Brand Irradiated Ergosterol	42.00	42.46	4.50	6.13	7.00	5.56

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
R. P. Johnson & Son **Potter Place, New Hampshire**						
Johnson's Dairy Feed	16.00	17.90	3.00	3.87	9.00	8.17
Johnson's Growing Mash	14.00	14.62	3.50	4.31	8.00	8.75
Johnson's Mash Feed	16.00	18.17	4.00	4.64	7.00	8.03
Johnson's Pig and Hog Feed	15.00	16.50	2.50	4.17	7.00	8.86
Kansas Flour Mills Co. **Kansas City, Missouri**						
Big Flake Pure Wheat Bran	15.00	16.20	3.50	3.83	11.00	9.23
Wheat Gray Shorts	16.00	17.29	3.50	4.71	6.00	5.99
Kasco Mills, Inc. **Waverly, New York**						
Kasco All Mash Grower	15.00	15.98	3.00	4.48	7.00	6.01
Kasco All Mash Laying and Breeding Ration	15.00	15.41	3.00	4.40	6.50	5.74
Kasco Broiler Starter Ration	18.00	19.92	3.00	4.85	7.50	8.43
Kasco Fitting Ration	14.00	15.50	3.50	4.10	8.00	7.03
Kasco Laying and Breeding Mash	20.00	21.93	3.00	4.93	7.50	7.82
Kasco Pig Hog Feed	20.00	20.79	4.00	5.99	8.00	7.19
Kasco Turkey Grower	20.00	21.36	3.00	4.05	8.00	7.56
Keene Grain Company **Keene, New Hampshire**						
Keene Brand 16% All-In-One Hog Feed	16.00	16.68	3.50	5.04	7.00	10.29
Keene Brand 18% Dairy Feed	18.00	17.09	3.00	4.27	15.00	8.41
Keene Brand 18% Laying Mash	18.00	17.53	3.50	4.72	6.50	8.72
Kellogg Company **Battle Creek, Michigan**						
Kellogg's Hominy Feed	10.00	9.76	6.00	6.47	5.00	3.71
Kellogg's Vi-Min-Ho Cattle Mix	10.00	10.07	5.50	6.97	5.00	4.28
William Kelly Milling Co. **Hutchinson, Kansas**						
Wheat Bran with Ground Wheat Screenings	15.00	15.24	3.50	4.52	11.00	8.96
Keystone Dehydrators **Nazareth, Pennsylvania**						
Keystone Super-Green Dehydrated Alfalfa Meal	13.00	13.53	2.00	2.15	35.00	25.46
LaGrande Mills **Red Wing, Minnesota**						
Pure Fancy Coarse Wheat Bran	15.00	15.32	4.50	5.26	13.00	10.46
Larabee Flour Mills Co. **Kansas City, Missouri**						
Sunfed Winter Wheat Bran with Ground Wheat Screenings	15.00	15.15	3.50	4.34	11.00	9.74
Lauhoff Grain Co. **Danville, Illinois**						
Vermilion Hominy Feed	9.00	10.68	6.00	7.06	6.00	5.72
Maine Fish Meal Company **Portland, Maine**						
Maine Concentrate	50.00	50.83	15.00	17.42	1.00	0.54
Maine Vitaproil	48.00	49.21	16.00	18.90	2.00	1.26

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Maritime Milling Co., Inc. Buffalo, New York						
B-B 18% Broiler Ration	18.00	19.44	3.50	3.74	8.00	6.29
B-B Broiler Ration	20.00	19.79	3.50	4.54	7.00	6.24
B-B Complete Chick Starter Ration	20.00	19.70	3.50	4.51	7.00	6.26
B-B Complete Laying Ration	17.00	19.22	3.50	4.20	8.50	6.03
B-B Conditioning Mash	14.00	15.24	2.50	3.76	6.00	3.61
B-B 20 Dairy Ration	20.00	22.07	3.50	4.20	9.00	8.78
B-B 24 Dairy Ration	24.00	24.87	3.50	4.55	9.00	8.99
B-B Dry and Fresh Cow Fitting Ration	13.00	19.00	3.50	4.16	10.00	8.96
B-B Egg Mash	20.00	22.33	3.50	4.82	8.00	6.34
B-B Horse Feed	9.00	14.89	2.00	3.71	10.00	7.53
B-B Layer and Breeder Mash	20.00	19.22	3.50	4.15	7.00	6.33
B-B Turkey Growing Mash	18.00	18.01	3.50	3.79	9.00	8.69
Marmico 16% Protein Dairy Feed	16.00	18.52	3.00	4.21	12.00	10.51
Merrimack Farmers' Exchange, Inc. Concord, New Hampshire						
Bran	14.00	15.45	4.00	3.55	11.00	10.70
Merrimack All Mash	15.00	16.64	3.50	4.82	6.00	7.48
Merrimack Breeder Mash	19.50	20.49	4.50	4.79	6.00	8.13
Merrimack Calf Meal	20.00	21.53	4.50	5.39	5.00	6.17
Merrimack Calf Starter	18.00	17.36	4.00	4.99	4.00	6.09
Merrimack Chick and Broiler Mash	18.50	18.85	4.00	4.58	6.00	7.16
Merrimack Chick Starter	18.00	19.48	3.50	4.98	6.00	7.04
Merrimack Complete Layer	15.00	16.72	3.50	4.57	7.00	7.89
Merrimack 16% Dairy Ration	16.00	16.63	3.50	3.98	8.50	7.19
Merrimack Fitting Ration	14.00	16.59	4.50	4.12	8.50	7.85
Merrimack Goat Ration	14.00	15.50	4.50	4.18	8.00	9.64
Merrimack Growing Mash	17.00	18.91	4.25	4.21	6.00	7.31
Merrimack Hog Ration	15.00	15.67	4.00	4.72	7.00	8.04
Merrimack Horse Feed	11.00	14.32	3.50	4.58	10.00	8.66
Merrimack Laying Mash	19.00	15.54	3.50	4.96	6.00	7.05
Merrimack 20% Milk Ration Sweetened	20.00	20.03	3.50	3.96	8.50	6.90
Merrimack Pig Ration	17.00	17.42	5.00	5.08	7.00	7.26
Merrimack Rabbit Pellets	14.00	15.41	4.50	4.86	8.50	7.10
Merrimack Turkey Growing Mash	20.00	16.92	3.00	4.44	8.00	6.75
F. R. Miller Feed Mills Omaha, Nebraska						
18% Broiler Ration	18.00	17.34	5.00	3.77	5.50	7.74
Miner-Hillard Milling Company Wilkes Barre, Pennsylvania						
Choice Steam Cooked Hominy Feed	10.00	10.81	5.00	7.14	5.00	4.95
Mississippi Valley Dehydrating Association Tiptonville, Tennessee						
13% Alfalfa Meal	13.00	14.49	1.50	1.24	33.00	33.41
20% Alfalfa Meal	20.00	21.67	1.50	2.76	22.00	21.12
George Q. Moon & Co., Inc. Binghamton, New York						
Moon's Complete Laying Mash	16.00	17.12	3.00	4.38	9.00	8.37
Moon's Fitting Ration	13.00	14.67	3.00	3.83	9.00	8.62
Moon's Hog Feed	13.00	14.06	3.00	4.10	12.00	9.51
Special A Dairy 16% Ration	16.00	17.42	3.00	5.24	12.00	13.11

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
National Distillers Products Corp. New York, New York						
Produclac Brand Dried Corn Distillers Grains with Solubles	27.00	25.95	5.00	7.97	10.50	7.30
National Lead Company New York, New York						
Dutch Boy 34% Linseed Oil Meal	34.00	34.06	4.50	5.75	10.00	8.61
Nebraska Alfalfa Milling Co. Darr, Nebraska						
15% Dehydrated Alfalfa Meal	15.00	17.12	1.00	1.55	33.00	30.55
Nebraska Consolidated Mills Co. Omaha, Nebraska						
Emergency Grade Mill Run Hard Wheat Feed	15.00	15.32	3.00	4.65	11.00	9.73
Neumond Company St. Louis, Missouri						
Neumond Distillers Dried Grains	25.00	27.36	5.00	7.75	16.00	15.64
New England Grain Co. Portland, Maine						
New England Milky Way 20% Dairy Feed	20.00	19.20	4.00	4.02	9.00	7.13
New England Sweetened Horse Feed	9.00	11.51	3.00	3.94	9.00	12.78
New England Sweetened Stock Feed	9.00	10.55	3.50	3.74	10.00	11.43
3 in 1 Mash Starting, Growing, Laying	17.00	18.60	4.00	5.56	7.00	6.98
North Dakota Mill and Elevator Grand Forks, North Dakota						
Dakota Maid All Mash Laying Ration	16.00	15.44	3.50	4.85	8.00	8.58
Dakota Maid Hard Wheat Mixed Mill Feed	15.00	15.41	4.00	5.38	9.50	9.49
Northern Supply Company Amery, Wisconsin						
Pulverized Oats	12.00	10.77	3.50	4.40	12.00	12.92
Northwest Distributing Co., Inc. Colby, Wisconsin						
Northwest's 18% Broiler	18.00	15.35	4.00	3.29	8.00	9.07
Northwest's 23% Chick Starter	23.00	23.03	4.00	4.02	8.00	8.77
Northwest's 16% Dairy Ration	16.00	14.95	3.00	3.25	12.00	10.74
Ogden Grain Co. Utica, New York						
Biddy Mash	20.00	21.01	4.00	5.46	10.00	9.34
Cloverbloom Dairy Feed	20.00	22.55	3.50	4.31	12.00	8.67
Ogden 20% Breeder	20.00	20.31	4.00	5.44	8.00	7.99
Ogden Complete Starter-Grower-Layer	16.00	17.25	4.00	4.39	10.00	9.52
Ogden Flush Conditioner	14.00	15.98	3.00	4.63	6.00	5.91
Ogden Horse Feed	10.00	11.73	3.00	3.82	9.00	7.92
Ogden Layer and Breeder	20.00	20.35	4.00	5.08	9.00	8.69
Ogden 22% Pellets	22.00	23.25	4.00	4.54	10.00	7.93
Ogden Pig Feed	14.00	17.43	3.50	4.82	12.00	9.40
Ogden Starter and Broiler Ration	20.00	19.44	4.00	4.74	9.00	6.84
Ogilvie Flour Mill Company Montreal, Canada						
Bromco Coarse Ground Oat Hulls	2.76	5.34	1.00	2.28	35.00	27.81
Ground Grain Screenings B	13.00	13.97	6.00	6.83	12.00	13.34

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Oswego Soy Products Corp. Oswego, New York						
35% Concentrate	35.00	37.91	4.00	4.05	7.00	5.29
Old Process Expeller 41% Protein Soybean Oil Meal	41.00	43.17	4.00	4.76	7.00	5.56
Pacific Milling Co. Bakersfield, California						
Poultry Alfalfa Meal	17.00	17.34	2.00	1.63	30.00	25.91
Park & Pollard Company Boston, Massachusetts						
Bulky Sweet Dairy Feed	12.00	13.84	2.50	2.73	14.00	14.29
Corn and Oats Half and Half	10.00	10.98	3.00	4.07	8.00	6.61
32% Dairy Mixing Ration	32.00	31.03	2.50	3.49	9.00	6.49
Go-To-It Pig and Hog Ration	15.00	17.64	2.50	4.16	8.00	7.95
Hi-Valu Scratch Pellets	12.00	15.68	2.50	4.45	8.00	10.74
Lay or Bush Dry Mash	20.00	21.75	2.50	3.91	8.50	7.10
Lay or Bust Egg Mash	20.00	20.18	2.50	4.63	7.50	6.78
Lay or Bust Turkey Starter	25.00	25.17	2.50	4.51	6.50	6.99
Milkade Calf Starter Mix	19.50	17.63	3.50	4.24	10.00	6.81
Milkade Calf Starter Pellets	22.00	26.00	4.00	4.01	9.00	6.99
Milk Maid 16% Dairy Ration	16.00	16.55	3.00	4.64	12.00	6.09
Milk Maid 20% Dairy Ration	20.00	20.84	3.50	4.59	10.00	6.93
Milk Maid 24% Dairy Ration	24.00	26.31	3.50	3.74	10.00	7.07
Milk Maid Fitting Ration	14.00	16.50	3.00	4.14	12.00	7.62
Milk Maid Test Cow Ration	18.00	19.35	3.50	4.01	12.00	9.02
Park & Pollard All Mash Growing Feed	14.50	18.56	2.50	4.06	8.50	7.54
Park & Pollard All Mash Laying Ration	15.00	17.03	2.50	4.54	8.50	10.18
Park & Pollard Breeder Mash	20.00	19.26	2.50	4.36	8.50	6.28
Park & Pollard Broiler Mash	20.00	20.35	2.50	4.38	8.50	6.55
Park & Pollard Chick Starter	20.00	20.44	2.50	4.86	8.50	7.52
Park & Pollard Fleshing Pellets	15.00	17.20	2.50	4.12	8.50	6.83
Park & Pollard Growing Feed	16.00	16.20	2.50	4.45	8.50	9.10
Park & Pollard Growing Pellets	16.00	19.30	2.50	4.26	8.50	9.52
Park & Pollard Laying Pellets	18.00	19.88	2.50	4.22	8.50	10.17
Park & Pollard Rabbit Pellets	14.00	20.49	2.50	4.09	12.00	5.68
Park & Pollard Stock Feed	9.00	10.20	2.00	4.02	12.00	12.16
Park & Pollard Turkey Grower	18.00	20.44	2.50	4.77	8.50	8.82
Yankee Horse Feed	10.00	12.61	2.50	4.28	11.00	8.04
Pasco Packing Co. Dade City, Florida						
Sugar Sweet Citrus Pulp	6.00	7.09	2.75	3.51	12.00	12.60
Penick & Ford, Inc. Cedar Rapids, Iowa						
Douglas Corn Gluten Feed	23.00	29.81	1.50	2.29	8.50	6.71
Pillsbury Mills, Inc. Minneapolis, Minnesota						
Pillsbury's Hard Wheat Bran with Ground Wheat Screenings	14.00	14.88	4.00	4.72	12.00	9.27
Pillsbury's Wheat Bran	14.50	16.07	3.50	4.17	11.00	8.74
Pittsburgh Plate Glass Co. Newark, New Jersey						
Red Wing 34% Protein Old Process Linseed Meal	34.00	34.06	4.50	7.28	9.00	7.93

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Publicker Industries, Inc. Philadelphia, Pennsylvania						
Distillers Solubles Dried	15.00	22.11	0.00	0.91	4.00	3.65
Quaker Oats Company Chicago, Illinois						
Bell Cow Bran	15.00	16.98	3.50	4.95	11.50	10.73
Ful-O-Pep Broiler Mash	19.00	18.85	3.50	4.22	8.00	7.04
Ful-O-Pep Calf Starter	20.00	20.75	4.50	5.22	8.00	5.87
Ful-O-Pep Chick Starter	17.00	17.42	4.00	5.10	8.00	5.81
Ful-O-Pep 16% Dairy Ration	16.00	16.29	3.50	4.95	11.00	10.65
Ful-O-Pep Egg Breeder Mash	20.00	18.43	4.00	3.84	8.00	5.66
Ful-O-Pep Fitting Ration	14.00	12.79	3.50	5.11	11.00	9 76
Ful-O-Pep Growing Mash	19.00	19.48	4.00	5.01	8.00	6.70
Ful-O-Pep Horse Feed	12.00	11.73	3.00	4.90	11.00	11.76
Ful-O-Pep Laying Mash	18.00	18.21	3.50	4.59	8.00	8.22
Peterborough Oat Feed	3.50	4.91	1.00	2.05	32.50	28.51
Quaker Sugared Schumacher Feed	10.00	9.22	3.00	3.17	12.00	10.14
Vim Oat Mill Feed	5.00	3.50	1.50	1.10	30.00	31.96
Quality Products, Inc. LaFeria, Texas						
Tex Delta Dried Citrus Pulp	5.50	6.09	2.50	2.02	10.50	11.66
Ralston Purina Co. St. Louis, Missouri						
Purina B & M Cow Chow	16.00	19.44	3.50	4.55	10.00	7.78
Purina Breeder Lay Chow	22.00	25.83	3.50	5.02	8.00	8.71
Purina Breeder Layena	15.50	16.73	3.00	4.67	8.00	6.56
Purina Bulky Las	10.00	12.43	2.00	2.60	16.00	13.44
Purina Calf Startena	19.50	20.22	2.50	3.93	9.50	8.78
Purina Chick Startena	20.00	20.31	3.50	5.05	7.00	4.18
Purina Cow Chow	18.00	20.31	3.00	4.36	10.00	8.79
Purina Dog Chow Kibbled Meal	21.00	25.00	4.00	6.09	6.00	4.39
Purina Dry and Freshening Chow	12.50	14.14	2.00	3.74	14.00	10.19
Purina Eastern Cow Chow	20.00	21.05	3.00	4.70	12.00	10.49
Purina Goat Chow	16.00	19.96	3.50	4.14	10.00	7.18
Purina Hog Fatena	14.00	15.98	3.00	4.26	7.00	7.47
Purina 18% Lay Chow	18.00	19.26	3.00	4.10	8.00	9.21
Purina 22% Lay Chow	22.00	25.57	3.50	4.27	8.00	9.35
Purina Layena	15.50	18.52	3.00	4.39	8.00	6.67
Purina Omolene	10.00	11.25	3.00	4.01	11.00	8.28
Purina Rabbit Chow Checkers	14.50	19.49	2.00	4.18	18.00	13.29
Purina Turkey Breeder Chow	25.00	25.43	4.00	4.82	8.00	8.36
Purina Turkey Fatena Checkers	14.00	16.90	3.50	4.40	7.00	6.61
John Reardon & Sons Cambridge, Massachusetts						
Register Brand 45% Protein Meat and Bone Scraps	45.00	43.92	8.00	13.87	....	....
Robin Hood Flour Mills Saskatoon, Canada						
Blackhawk Pulverized Oat Hulls	5.00	6.17	2.50	2.22	27.90	24.46
Russell Miller Milling Co. Minneapolis, Minnesota						
Hard Wheat Occident Bran	14.00	17.69	4.00	4.73	11.50	9.03
Hard Wheat Occident Flour Middlings	15.50	19.79	4.00	3.88	5.00	2.65
Hard Wheat Occident Mixed Feed	15.00	17.16	4.00	4.76	9.50	8.80
Hard Wheat Occident Standard Middlings	15.00	18.34	4.00	5.90	9.50	7.79

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Schenley Distilleries, Inc. **New York, New York**						
Corn Distillers Dried Grains with Solubles	24.00	25.43	5.00	7.74	13.00	9.29
Schultz, Baujan & Co. **Beardstown, Illinois**						
Critic Wheat Mixed Feed	15.00	15.71	4.00	4.67	8.50	8.46
Slater Mill and Elevator Co. **Slater, Missouri**						
Winter Wheat Bran	15.00	14.32	3.50	3.76	9.20	10.33
W. J. Small Co. **Kansas City, Kansas**						
Alfalfa Meal	13.00	14.14	1.50	1.27	33.00	33.66
Small's 17% Dehydrated Alfalfa Meal	17.00	17.16	1.75	2.61	27.00	26.02
South End Hay and Grain **Manchester, New Hampshire**						
Feedboard Egg Mash	19.00	19.09	4.00	6.14	7.00	8.29
Feedboard Grower	17.50	18.25	4.00	5.64	6.50	8.96
Feedboard Starter and Broiler Ration	20.00	20.00	3.50	5.81	7.00	7.32
F. B. Spaulding Co. **Lancaster, New Hampshire**						
Spaulding's Dairy Feed	18.00	18.56	3.50	4.61	9.00	8.71
Miracle Egg Mash	16.00	17.34	3.00	4.01	9.00	7.71
Spaulding & Sons **Milford, New Hampshire**						
Spaulding's Starter Broiler	20.00	20.92	4.00	4.98	7.50	5.69
Spencer Kellogg & Sons, Inc. **Minneapolis, Minnesota**						
Spencer Kellogg's 34% Protein Old Process Linseed Oil Meal	34.00	34.63	3.50	3.67	9.00	8.59
Spencer Kellogg's 41% Protein Soybean Oil Meal	41.00	43.47	3.50	4.31	7.00	6.27
A. E. Staley Mfg. Co. **Decatur, Illinois**						
Staley's Corn Gluten Feed	23.00	24.78	1.50	3.61	8.00	6.78
Staley's Corn Gluten Meal	41.00	46.62	1.00	1.31	6.00	3.41
Staley's 41% Protein Soybean Oil Meal	41.00	45.00	3.50	4.34	7.00	5.52
Standard Milling Co. **Chicago, Illinois**						
Red Turkey Wheat Bran	14.50	15.67	3.50	4.25	11.00	9.22
Stratton & Co. **Concord, New Hampshire**						
Emergency Wheat Feed	12.40	14.89	4.20	4.35	10.00	8.91
Fancy Fine White Middlings	14.00	14.23	4.26	3.73	5.50	3.11
Fancy Wheat Bran	14.00	13.77	4.00	4.23	11.00	10.28
Standard Wheat Middlings	14.00	14.75	4.00	4.82	8.00	7.35
Stratton's Stock Feed	7.50	7.57	2.83	3.56	14.43	13.90
Stratton's 24 Stock Feed	7.50	8.45	2.83	4.28	14.43	13.48
Wheat Mixed Feed	13.50	13.29	4.11	4.30	7.13	8.40
Sunshine Stores, Inc. **Fort Wayne, Indiana**						
Local Mix Mash	15.00	16.37	3.00	5.52	8.00	7.99

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Texsun Citrus Exchange **Weslaco, Texas**						
Texsun Citrus Pulp with Molasses	5.50	6.22	1.85	2.07	10.75	9.34
Tonka Mills Company **Minneapolis, Minnesota**						
Tonka Pulverized Oats	11.50	11.91	3.50	4.29	12.50	11.56
Union National Mill Company **Springfield, Ohio**						
Mixed Feed	11.00	11.86	2.50	3.19	15.00	10.34
William Tell Wheat Middlings	15.00	15.19	3.00	3.95	9.00	8.85
Union Starch and Refining Company **Columbus, Indiana**						
Union Corn Gluten Meal	41.00	43.69	1.00	1.11	5.00	4.39
Unity Feeds, Inc. **Boston, Massachusetts**						
Life Saver 16% Dairy Ration	16.00	16.11	3.00	5.18	10.00	9.29
Unity Conditioning Mash	15.00	15.54	3.00	4.15	10.00	5.01
Unity 16% Dairy Ration	16.00	16.33	3.00	3.91	10.00	8.61
Unity 20% Dairy Ration	20.00	19.15	3.50	4.19	10.00	9.11
Unity Fitting Ration	12.00	13.57	3.50	3.71	7.00	7.96
Unity Grist Mill **East Manchester, New Hampshire**						
Unity Breeder Mash	20.00	19.18	3.00	5.15	7.00	7.99
Unity Chick Starter	18.00	15.81	3.50	4.20	7.00	7.45
Unity Grist Mill Laying Mash	18.00	18.56	3.00	5.33	7.00	7.92
Unity Grist Mill 4-Way Mash	15.00	17.42	4.00	4.94	7.00	7.62
Unity Pig and Hog Feed	17.00	15.35	4.00	4.60	7.00	8.65
Unity Tri-Way Mash	15.00	16.37	4.00	4.29	7.00	8.54
Universal Grain Co. **Union, New Jersey**						
Superior Cow Brand Dried Brewers Grains	26.00	26.79	6.00	7.26	17.00	14.29
George Urban Milling Co. **Buffalo, New York**						
Wheat Bran with Screenings	13.00	14.76	3.00	4.82	12.00	8.96
Valier & Spies Milling Co. **St. Louis, Missouri**						
Grey Wheat Shorts and Wheat Screenings	16.00	15.13	4.00	4.04	6.00	7.03
Valley Dehydrating Co. **Kingsburg, California**						
Bee-Gee Fish-Trate	40.00	40.06	3.00	6.31	13.00	12.41
Wayne County Grangers Feed Corp. **Clyde, New York**						
Superior 16% Dairy Feed	16.00	17.51	3.50	4.67	12.00	8.65
Superior 20% Dairy Feed	20.00	20.70	3.50	4.76	12.00	9.33
Superior 20% Dairy Feed with Beet Pulp	20.00	18.98	4.00	4.37	10.00	8.36
Superior Fitting Ration	14.00	13.15	3.50	4.25	9.00	8.41
Superior Hog Ration	16.00	17.47	3.50	4.52	7.00	8.51
Superior Horse Feed	10.00	11.25	3.00	3.81	9.00	11.01
Superior Laying Mash	18.00	17.34	3.00	3.85	8.00	6.92
Superior Starting Mash	20.00	18.28	3.50	3.91	7.00	6.81

* Protein and fat not less than, crude fiber not more than.

Manufacturer / Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
H. K. Webster Co. **Lawrence, Massachusetts**						
Blue Seal All Mash Breeders Ration	15.00	16.68	3.50	4.93	6.00	6.33
Blue Seal All Mash Egg Ration	15.00	15.41	3.50	4.23	6.00	6.63
Blue Seal All Mash Growing Ration	14.50	15.06	3.50	3.88	6.00	7.85
Blue Seal Breeders Mash	20.00	20.84	3.50	5.75	7.00	5.93
Blue Seal Broiler Mash	20.00	19.72	4.00	5.25	6.50	6.73
Blue Seal Calf Grower	12.00	12.91	3.00	4.12	12.00	9.01
Blue Seal Chick Starter	19.00	18.67	3.50	4.30	6.50	6.93
Blue Seal 16 Dairy Ration	16.00	15.24	3.50	4.24	9.00	9.34
Blue Seal 20 Dairy Ration	20.00	21.71	4.00	4.89	9.00	8.16
Blue Seal Egg Mash	18.00	19.00	3.50	4.47	6.50	9.66
Blue Seal Fattening Pellets	11.00	14.58	3.50	4.89	6.50	5.79
Blue Seal Fitting Ration	14.00	15.10	4.00	5.09	9.00	8.94
Blue Seal Growing Mash	18.00	18.61	3.50	5.27	7.00	6.99
Blue Seal Horse Feed	10.00	12.38	3.00	3.68	9.00	8.51
Blue Seal Pig Feed	15.00	15.85	3.00	4.80	6.00	6.74
Blue Seal Rabbit Pellets	14.00	14.23	3.00	3.73	11.00	7.71
Blue Seal Richford 16 Dairy Ration	16.00	18.87	3.50	4.76	10.00	9.99
Blue Seal Stock Feed	8.50	11.25	3.00	4.62	17.00	10.97
Blue Seal Succulent Feed	10.00	12.04	1.50	3.45	18.00	13.82
Blue Seal Tonic Mash	15.00	15.06	3.50	5.45	6.00	5.14
Blue Seal Turkey Growing Pellets	20.00	20.40	3.50	5.07	7.00	7.64
Western Condensing Company **San Francisco, California**						
Peebles' Dried Whey with Ribolac	12.00	13.00	0.50	0.67	0.10	0.20
Western Milling Company **Mesa, Arizona**						
Arizona Brand Alfalfa Leaf Meal	20.00	20.71	2.00	2.38	18.00	19.19
Sungreen Brand Alfalfa Meal	15.00	17.29	1.50	1.80	30.00	25.57
Whitmoyer Laboratories, Inc. **Myerstown, Pennsylvania**						
Clo-Meal	38.00	40.19	5.00	17.95	6.00	2.34
Flav-A-Dee	22.00	26.18	18.00	19.31	12.00	5.78
Gro-Tein	40.00	42.56	3.00	5.07	7.00	5.90
Wisconsin Milling, Inc. **Menomonie, Wisconsin**						
Pulverized Oats	10.50	12.60	4.00	4.67	12.00	11.74

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